RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	_/O/766.935A
Source:	IFW16
Date Processed by STIC:	10/20/05

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 10/20/2005
PATENT APPLICATION: US/10/766,735A TIME: 10:55:26

Input Set : A:\14184-039001.txt

Output Set: N:\CRF4\10202005\J766735A.raw

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4 <110> APPLICANT: Currie, Mark G.
       Mahajan-Miklos, Shalina
 8 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
 9
        TREATMENT OF GASTROINTESTINAL DISORDERS
12 <130> FILE REFERENCE: 14184-039001
14 <140> CURRENT APPLICATION NUMBER: US 10/766,735A
15 <141> CURRENT FILING DATE: 2004-01-28
17 <150> PRIOR APPLICATION NUMBER: US 60/443,098
18 <151> PRIOR FILING DATE: 2003-01-28
20 <150> PRIOR APPLICATION NUMBER: US 60/471,288
21 <151> PRIOR FILING DATE: 2003-05-15
23 <150> PRIOR APPLICATION NUMBER: US 60/519,460
24 <151> PRIOR FILING DATE: 2003-11-12
26 <160> NUMBER OF SEQ ID NOS: 126
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32 <212> TYPE: PRT
33 <213> ORGANISM: Escherichia coli
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38 Gly Cys Tyr
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43 <212> TYPE: PRT
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48 1
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52 <210> SEQ ID NO: 3
53 <211> LENGTH: 18
54 <212> TYPE: PRT
55 <213> ORGANISM: Escherichia coli
57 <400> SEQUENCE: 3
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60 Cys Asn
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 18
65 <212> TYPE: PRT
66 <213> ORGANISM: Citrobacter freundii
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Input Set : A:\14184-039001.txt

Output Set: N:\CRF4\10202005\J766735A.raw

68 <400> SEQUENCE: 4 69 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly 70 1 71 Cys Tyr 74 <210> SEQ ID NO: 5 75 <211> LENGTH: 30 76 <212> TYPE: PRT 77 <213> ORGANISM: Yersinia enterocolitica 79 <400> SEQUENCE: 5 80 Gln Ala Cys Asp Pro Pro Ser Pro Pro Ala Glu Val Ser Ser Asp Trp 5 10 82 Asp Cys Cys Asp Val Cys Cys Asn Pro Ala Cys Ala Gly Cys 20 85 <210> SEQ ID NO: 6 86 <211> LENGTH: 30 87 <212> TYPE: PRT 88 <213> ORGANISM: Yersinia enterocolitica 90 <400> SEQUENCE: 6 91 Lys Ala Cys Asp Thr Gln Thr Pro Ser Pro Ser Glu Glu Asn Asp Asp 5 10 93 Trp Cys Cys Glu Val Cys Cys Asn Pro Ala Cys Ala Gly Cys 25 20 96 <210> SEQ ID NO: 7 97 <211> LENGTH: 53 98 <212> TYPE: PRT 99 <213> ORGANISM: Yersinia enterocolitica 101 <400> SEQUENCE: 7 102 Gln Glu Thr Ala Ser Gly Gln Val Gly Asp Val Ser Ser Ser Thr Ile 103 1 5 104 Ala Thr Glu Val Ser Glu Ala Glu Cys Gly Thr Gln Ser Ala Thr Thr 106 Gln Gly Glu Asn Asp Trp Asp Trp Cys Cys Glu Leu Cys Cys Asn Pro 107 35 40 108 Ala Cys Phe Gly Cys 50 109 111 <210> SEQ ID NO: 8 112 <211> LENGTH: 16 113 <212> TYPE: PRT 114 <213> ORGANISM: Yersinia kristensenii 116 <400> SEQUENCE: 8 117 Ser Asp Trp Cys Cys Glu Val Cys Cys Asn Pro Ala Cys Ala Gly Cys 10 120 <210> SEQ ID NO: 9 121 <211> LENGTH: 17 122 <212> TYPE: PRT 123 <213> ORGANISM: Vibrio cholerae 125 <400> SEQUENCE: 9 126 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu 127 1

Input Set : A:\14184-039001.txt

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128 Asn 131 <210> SEQ ID NO: 10 132 <211> LENGTH: 17 133 <212> TYPE: PRT 134 <213> ORGANISM: Vibrio mimicus 136 <400> SEQUENCE: 10 137 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu 138 1 5 10 139 Asn 142 <210> SEQ ID NO: 11 143 <211> LENGTH: 18 144 <212> TYPE: PRT 145 <213> ORGANISM: Escherichia coli 147 <400> SEQUENCE: 11 148 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Pro 149 1 150 Cys Tyr 153 <210> SEQ ID NO: 12 154 <211> LENGTH: 13 155 <212> TYPE: PRT 156 <213> ORGANISM: Vibrio cholerae 158 <400> SEQUENCE: 12 159 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe 160 1 162 <210> SEQ ID NO: 13 163 <211> LENGTH: 14 164 <212> TYPE: PRT 165 <213> ORGANISM: Vibrio cholerae 167 <400> SEQUENCE: 13 168 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly 169 1 171 <210> SEQ ID NO: 14 172 <211> LENGTH: 17 173 <212> TYPE: PRT 174 <213> ORGANISM: Vibrio mimicus 176 <400> SEQUENCE: 14 177 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu 178 1 5 10 179 Asn 182 <210> SEQ ID NO: 15 183 <211> LENGTH: 17 184 <212> TYPE: PRT 185 <213> ORGANISM: Vibrio mimicus 187 <400> SEQUENCE: 15 188 Ile Asp Arg Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu 189 1 10 190 Asn 193 <210> SEQ ID NO: 16 194 <211> LENGTH: 16

Input Set : A:\14184-039001.txt

Output Set: N:\CRF4\10202005\J766735A.raw

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255 1

Input Set : A:\14184-039001.txt

Output Set: N:\CRF4\10202005\J766735A.raw

256 Pro Phe Ala Gln Asp Ala Lys Pro Val Glu Ser Ser Lys Glu Lys Ile 257 258 Thr Leu Glu Ser Lys Lys Cys Asn Ile Ala Lys Lys Ser Asn Lys Ser 260 Gly Pro Glu Ser Met Asn Ser Ser Asn Tyr Cys Cys Glu Leu Cys Cys 55 262 Asn Pro Ala Cys Thr Gly Cys Tyr 263 65 265 <210> SEQ ID NO: 22 266 <211> LENGTH: 71 267 <212> TYPE: PRT 268 <213> ORGANISM: Yersinia enterocolitica 270 <400> SEQUENCE: 22 271 Met Lys Lys Ile Val Phe Val Leu Val Leu Met Leu Ser Ser Phe Gly 272 1 5 273 Ala Phe Gly Gln Glu Thr Val Ser Gly Gln Phe Ser Asp Ala Leu Ser 274 20 25 275 Thr Pro Ile Thr Ala Glu Val Tyr Lys Gln Ala Cys Asp Pro Pro Leu 277 Pro Pro Ala Glu Val Ser Ser Asp Trp Asp Cys Cys Asp Val Cys Cys 55 279 Asn Pro Ala Cys Ala Gly Cys 280 65 282 <210> SEQ ID NO: 23 283 <211> LENGTH: 54 284 <212> TYPE: PRT 285 <213> ORGANISM: Artificial Sequence 287 <220> FEATURE: 288 <223> OTHER INFORMATION: Synthetically generated amino terminal leader 289 sequence 291 <400> SEQUENCE: 23 292 Met Lys Lys Ser Ile Leu Phe Ile Phe Leu Ser Val Leu Ser Phe Ser 293 1 10 294 Pro Phe Ala Gln Asp Ala Lys Pro Val Glu Ser Ser Lys Glu Lys Ile 296 Thr Leu Glu Ser Lys Lys Cys Asn Ile Ala Lys Lys Ser Asn Lys Ser 297 35 40 298 Gly Pro Glu Ser Met Asn 299 50 301 <210> SEQ ID NO: 24 302 <211> LENGTH: 53 303 <212> TYPE: PRT 304 <213> ORGANISM: Artificial Sequence 306 <220> FEATURE: 307 <223> OTHER INFORMATION: Synthetically generated peptide 309 <400> SEQUENCE: 24 310 Met Lys Lys Ser Ile Leu Phe Ile Phe Leu Ser Val Leu Ser Phe Ser 312 Pro Phe Ala Gln Asp Ala Lys Pro Ala Gly Ser Ser Lys Glu Lys Ile

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/20/2005 PATENT APPLICATION: US/10/766,735A TIME: 10:55:27

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:66; Xaa Pos. 1,2,3,4,5,9,20,21

Seq#:119; Xaa Pos. 1,2,3,4,5,8,9,12,13,14,16,17,19,20,21

Seq#:120; Xaa Pos. 1,2,3,4,5,8,9,16,19,20,21

Seq#:125; Xaa Pos. 4
Seq#:126; Xaa Pos. 4

VERIFICATION SUMMARY

DATE: 10/20/2005 TIME: 10:55:27 PATENT APPLICATION: US/10/766,735A

Input Set : A:\14184-039001.txt

Output Set: N:\CRF4\10202005\J766735A.raw

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M:341 Repeated in SeqNo=120

L:1692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0 L:1710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:0